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☐ 1: CAA37824 Reports BLink, Domains, Links  
unnamed protein product [Gallus gallus]  
gi|63566|emb|CAA37824.1|[63566]

☐ 2: NP\_990615 Reports BLink, Domains, Links  
lactate dehydrogenase A [Gallus gallus]  
gi|45384208|ref|NP\_990615.1|[45384208]

☐ 3: NP\_989508 Reports BLink, Domains, Links  
lactate dehydrogenase B [Gallus gallus]  
gi|45383766|ref|NP\_989508.1|[45383766]

☐ 4: S12151 Reports BLink, Domains, Links  
L-lactate dehydrogenase (EC 1.1.1.27) chain A - chicken  
gi|104751|pir||S12151[104751]

☐ 5: P00340 Reports BLink, Domains, Links  
L-lactate dehydrogenase A chain (LDH-A)  
gi|126046|sp|P00340|LDHA\_CHICK[126046]

☐ 6: XP\_424417 Reports BLink, Domains, Links  
PREDICTED: similar to glyoxylate reductase/hydroxypyruvate reductase  
[Gallus gallus]  
gi|50806329|ref|XP\_424417.1|[50806329]

☐ 7: XP\_423785 Reports BLink, Domains, Links  
PREDICTED: similar to CTBP2 protein, partial [Gallus gallus]  
gi|50795561|ref|XP\_423785.1|[50795561]

☐ 8: XP\_427994 Reports BLink, Domains, Links  
PREDICTED: similar to C-terminal binding protein, partial [Gallus gallus]

gi|50794313|ref|XP\_427994.1|[50794313]

☐ 9:

XP\_417331

Reports

BLink, Domains, Links

PREDICTED: similar to adenine homocysteine hydrolase [Gallus gallus]  
gi|50758593|ref|XP\_417331.1|[50758593]

☐ 10:

XP\_414670

Reports

BLink, Domains, Links

PREDICTED: similar to Tcf-3 co-repressor CtBP [Gallus gallus]  
gi|50755244|ref|XP\_414670.1|[50755244]

☐ 11:

XP\_422226

Reports

BLink, Domains, Links

PREDICTED: similar to 3-phosphoglycerate dehydrogenase [Gallus gallus]  
gi|50751002|ref|XP\_422226.1|[50751002]

☐ 12:

XP\_418901

Reports

BLink, Domains, Links

PREDICTED: hypothetical protein XP\_418901 [Gallus gallus]  
gi|50733529|ref|XP\_418901.1|[50733529]

☐ 13:

AAG48560

Reports

BLink, Domains, Links

lactate dehydrogenase B [Gallus gallus]  
gi|12082647|gb|AAG48560.1|AF218799\_1[12082647]

☐ 14:

AAC27617

Reports



BLink, Domains, Links

lactate dehydrogenase H subunit [Gallus gallus]  
gi|3342404|gb|AAC27617.1|[3342404]

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☐ 1: [CAA37824](#). Reports unnamed protein p...[gi:63566]
 
[BLink](#), [Domains](#), [Links](#)

LOCUS CAA37824 332 aa linear VRT 18-APR-2005  
 DEFINITION unnamed protein product [Gallus gallus].  
 ACCESSION CAA37824  
 VERSION CAA37824.1 GI:63566  
 DBSOURCE embl locus GGLDHA, accession [X53828.1](#)  
 KEYWORDS .  
 SOURCE Gallus gallus (chicken)  
 ORGANISM [Gallus gallus](#)  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;  
 Phasianinae; Gallus.  
 REFERENCE 1 (residues 1 to 332)  
 AUTHORS Hirota, Y., Katsumata, A. and Takeya, T.  
 TITLE Nucleotide and deduced amino acid sequences of chicken lactate  
 dehydrogenase-A  
 JOURNAL Nucleic Acids Res. 18 (21), 6432 (1990)  
 PUBMED [2243792](#)  
 REFERENCE 2 (residues 1 to 332)  
 AUTHORS Takeya, T.  
 TITLE Direct Submission  
 JOURNAL Submitted (30-JUL-1990) Takeya T., Institute for Chemical Research,  
 Kyoto University, Gokasho, Uji, Kyoto 611, Japan  
 FEATURES Location/Qualifiers  
 source 1..332  
 /organism="Gallus gallus"  
 /db\_xref="taxon:9031"  
 /clone="YH1A"  
 /cell\_type="fibroblast"  
 /dev\_stage="embryo"  
 Protein 1..332  
 /name="unnamed protein product"  
 CDS 1..332  
 /coded\_by="X53828.1:60..1058"  
 /note="L-lactate dehydrogenase A-chain"  
 /db\_xref="GOA:P00340"  
 /db\_xref="UniProt/Swiss-Prot:P00340"  
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 121 ipnvvkyspd ckllivsnpv diltvawki sgfpkhrvig sgcnl dsarf rhlmgelrgi  
 181 hplschgwiv gehgdssvpv wsgvnavgvs lkahpdmgt dadkehwwkev hkqvvdsaye  
 241 viklkgysw aiglsvadla etimknllrrv hpistavkgm hgikddvfls vpcvlgssgi  
 301 tdvvmilkp deekikkksa dtlwgigqkel qf  
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Range: from  to  Features: ☐ SNP ☐ CDD ☒ MGC ☐ HPRD ☐ STS

☐ 1: [NP\\_990615](#). Reports lactate dehydroge...[gi:45384208]

[BLink](#), [Domains](#),  
[Links](#)

LOCUS NP\_990615 332 aa linear VRT 16-APR-2005  
 DEFINITION lactate dehydrogenase A [Gallus gallus].  
 ACCESSION NP\_990615  
 VERSION NP\_990615.1 GI:45384208  
 DBSOURCE REFSEQ: accession [NM\\_205284.1](#)  
 KEYWORDS .

SOURCE Gallus gallus (chicken)  
 ORGANISM [Gallus gallus](#)  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;  
 Phasianinae; Gallus.

REFERENCE 1 (residues 1 to 332)

AUTHORS Hirota,Y., Katsumata,A. and Takeya,T.

TITLE Nucleotide and deduced amino acid sequences of chicken lactate dehydrogenase-A

JOURNAL Nucleic Acids Res. 18 (21), 6432 (1990)

PUBMED [2243792](#)

COMMENT PROVISIONAL REFSEQ: This record has not yet been subject to final NCBI review. The reference sequence was derived from [X53828.1](#).

FEATURES Location/Qualifiers  
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 Protein 1..332  
 /product="lactate dehydrogenase A"  
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 CDS 1..332  
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 /db\_xref="GeneID:396221"

ORIGIN

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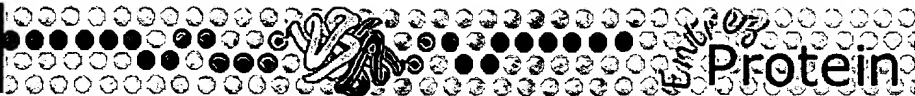
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61 emldlqhghsl flktpkiisg kdysvtahsk lvivtagarq qegesrlnlv qrnvnifkfi
121 ipnvvkyspd ckllivsnpv diltvawki sgfpkhrvig sgcnlldsarf rhlmggerlgi
181 hplschgwiw gehgdssvpv wsgvvnagvs lkallhpdmt dadkehkwkev hkqvvdssaye
241 viklkgysw aiglsvadla etimknllrv hpistavkgm hgikddvfls vpcvlgssgi
301 tdvvkmilkp deekikksa dtlwgiqkel qf

```

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[Limits](#)[Preview/Index](#)[History](#)[Clipboard](#)[Details](#)Range: from to Features: ☐ SNP ☐ CDD ☒ MGC ☐ HPRD ☐ STS☐ 1: [S12151](#). Reports L-lactate dehydro...[gi:104751][BLink](#), [Domains](#),  
[Links](#)

LOCUS S12151 332 aa linear VRT 11-JUN-1999  
 DEFINITION L-lactate dehydrogenase (EC 1.1.1.27) chain A - chicken.  
 ACCESSION S12151  
 VERSION S12151 GI:104751  
 DBSOURCE pir: locus S12151;

summary: #length 332 #molecular-weight 36514 #checksum 4092

; superfamily: L-lactate dehydrogenase

; PIR dates: 02-Dec-1993 #sequence\_revision 10-Nov-1995 #text\_change 11-Jun-1999

KEYWORDS oxidoreductase.

SOURCE Gallus gallus (chicken)

ORGANISM [Gallus gallus](#)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;  
 Phasianinae; Gallus.

REFERENCE 1 (residues 1 to 332)

AUTHORS Hirota,Y., Katsumata,A. and Takeya,T.

TITLE Nucleotide and deduced amino acid sequences of chicken lactate dehydrogenase-A

JOURNAL Nucleic Acids Res. 18 (21), 6432. (1990)

PUBMED [2243792](#)

## FEATURES

source

Location/Qualifiers

1..332

/organism="Gallus gallus"

/db\_xref="taxon:9031"

[Protein](#)

1..332

/product="L-lactate dehydrogenase chain A"

/EC\_number="1.1.1.27"

[Site](#)

166

/site\_type="active"

/note="Asp, His"

/evidence=not\_experimental

[Site](#)

193

/site\_type="active"

/note="Asp, His"

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## ORIGIN

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121 ipnvvkyspd ckllivsnpv diltvawki sgfpkhrvig sgcnl dsarf rhlmgerlgi
181 hplschgwiw gehgdssvpv wsgvnnvagvs lkahpdmgt dadkehwev hkqvvdsaye

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241 viklkgytsw aiglsvadla etimknlrrv hpistavkgm hgikddvfls vpcvlgssgi  
301 tdvvkmilkp deekikksa dtlwgiqkel qf

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 ☐ STS

☐ 1: [P00340](#). Reports L-lactate dehydro...[gi:126046]

[BLink](#),
 [Domains](#),
 [Links](#)

LOCUS P00340 332 aa linear VRT 25-JAN-2005  
 DEFINITION L-lactate dehydrogenase A chain (LDH-A).  
 ACCESSION P00340  
 VERSION P00340 GI:126046  
 DBSOURCE swissprot: locus LDHA\_CHICK, accession [P00340](#);  
 class: standard.  
 created: Jul 21, 1986.  
 sequence updated: Nov 1, 1991.  
 annotation updated: Jan 25, 2005.  
 xrefs: [X53828.1](#), [CAA37824.1](#), [DECHLM](#), [S12151](#)  
 xrefs (non-sequence databases): HSSPP00338, InterProIPR001557,  
 InterProIPR001236, PfamPF02866, PfamPF00056, PRINTSPR00086,  
 TIGRFAMsTIGR01771, PROSITEPS00064  
 KEYWORDS Direct protein sequencing; Glycolysis; Multigene family; NAD;  
 Oxidoreductase.  
 SOURCE Gallus gallus (chicken)  
 ORGANISM [Gallus gallus](#)  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;  
 Phasianinae; Gallus.  
 REFERENCE 1 (residues 1 to 332)  
 AUTHORS Hirota,Y., Katsumata,A. and Takeya,T.  
 TITLE Nucleotide and deduced amino acid sequences of chicken lactate  
 dehydrogenase-A  
 JOURNAL Nucleic Acids Res. 18 (21), 6432 (1990)  
 PUBMED 2243792  
 REMARK NUCLEOTIDE SEQUENCE.  
 REFERENCE 2 (residues 1 to 332)  
 AUTHORS Torff,H.-J., Becker,D. and Schwarzwaldner,J.  
 JOURNAL (in) Sund,H. (Ed.);  
 PYRIDINE NUCLEOTIDE DEPENDENT DEHYDROGENASES: 31-42;  
 Walter de Gruyter, Berlin (1977)  
 REMARK PROTEIN SEQUENCE.  
 COMMENT [CATALYTIC ACTIVITY] (S)-lactate + NAD(+) = pyruvate + NADH.  
 [PATHWAY] Anaerobic glycolysis; final step.  
 [SUBUNIT] Homotetramer.  
 [SUBCELLULAR LOCATION] Cytoplasmic.  
 [SIMILARITY] Belongs to the LDH/MDH superfamily. LDH family.

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    gene              1..332
                        /gene="LDHA"
    Protein           1..332
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    Site              29..57
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                        /site_type="np-binding"
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                        /evidence=experimental
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                        /note="L -> M (in Ref. 2)."
                        /evidence=experimental
    Region            78
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                        /region_name="Conflict"
                        /note="I -> T (in Ref. 2)."
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                        /site_type="binding"
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                        /note="Substrate (By similarity)."
                        /evidence=experimental
    Site              138
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                        /site_type="binding"
                        /note="Substrate (By similarity)."
                        /evidence=experimental
    Site              169
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                        /site_type="binding"
                        /note="Substrate (By similarity)."
                        /evidence=experimental
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                        /region_name="Conflict"
                        /note="E -> Q (in Ref. 2)."
                        /evidence=experimental
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    Site              248
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                        /site_type="binding"
                        /note="Substrate (By similarity)."

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/evidence=experimental

ORIGIN

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121 ipnvvkyspd ckllivsnpv diltyvawki sgfpkhrvig sgcnl dsarf rhlmgerlgi
181 hp lschgwiv gehgdssvpv wsgv nvagvs lkalhpdmt dadkeh wkev hkqv vdsaye
241 vikl kgytsw aigls vadla etimknlrrv hp istavkgm hgikddvfls vpcvlgssgi
301 tdv vkmilkp deekikk sa dtlwgiqkel qf
```

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